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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/626,671	07/25/2003	Sabine Genicot	P23903	9361
7055	7590 09/20/2005		EXAMINER	
GREENBLUM & BERNSTEIN, P.L.C. 1950 ROLAND CLARKE PLACE			PATTERSON, CHARLES L JR	
RESTON, V			ART UNIT	PAPER NUMBER
•			1652	
			DATE MAILED: 09/20/2003	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Δ	pplication No.	Applicant(s)				
			0/626,671	GENICOT ET AL.				
Office Action Summary			xaminer	Art Unit				
	•		harles L. Patterson, Jr.	1652				
	The MAILING DATE of this commun			l l				
Period for Reply								
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MINISTRY IN THE MINIST	MAILING DATE s of 37 CFR 1.136(a) munication. tatutory period will ap y will, by statute, caus	E OF THIS COMMUNICATION In no event, however, may a reply be time only and will expire SIX (6) MONTHS from se the application to become ABANDONE	I.  lely filed  the mailing date of this communication.  O (35 U.S.C. § 133).				
Status								
1)[\]	Responsive to communication(s) file	ed on 27 Octob	her 2003 and 18 December 20	202				
			is action is non-final.					
3)								
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	on of Claims	·	•					
4)⊠	☑ Claim(s) <u>1-4</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) _ is/are allowed.							
· <u> </u>	Claim(s) 1-4 is/are rejected.							
	Claim(s) is/are objected to.							
8)[	Claim(s) are subject to restriction and/or election requirement.							
Applicati	ion Papers							
9) The specification is objected to by the Examiner.								
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
Attachmen	` '		<b>0</b> □1	(DTO 440)				
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F		4) Llanterview Summary Paper No(s)/Mail Da	(P10-413) te				
3) 🔯 Inforr	nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date			atent Application (PTO-152)				

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The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 2-4 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The instant specification teaches that the amino acid sequence of sulfohydrolase I from Chondrus crispus is SEQ ID NO:22. Nothing is taught regarding a sequence 35%, 50% or 80% identical with SEQ ID NO:22. There is nothing taught regarding which particular residues are the catalytic site, the binding site, etc. of the enzyme. It is well known that a change of even one amino acid may change the activity of an enzyme and therefore one of ordinary skill is not taught by the specification what particular residues may be changed so as to produce an active enzyme. In order to allow for allelic variants the examiner will allow claims drawn to 95% identity.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by either of Wong, et. al. (10) or Craigie, et al. (13). The instant references

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teach a sulfohydrolase from *Chondrus crispus* that it is maintained is the same as the protein of the instant claims, absent very convincing proof to the contrary. Sequencing of a protein does not lend any patentability to the protein *per se*.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles L. Patterson, Jr., PhD, whose telephone number is 571-272-0936. The examiner can normally be reached on Monday - Friday from 7:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy, can be reached on 571-272-0928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Charles L. Patterson, Jr. Primary Examiner

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Patterson September 13, 2005